

WHAT IS CLAIMED IS:

1. A digital film processing system, comprising:
a first light source operable to illuminate film;
a first sensor operable to produce a first output in response to a first amount of
5 light reflected from the film for a first time interval;
a second sensor operable to produce a second output in response to a second
amount of light passed through the film for the first time interval; and
processing circuitry coupled to the first light source and operable to adjust the
output of the first light source in response to the first and second outputs so that the
10 first sensor and the second sensor do not saturate.
2. The system of Claim 1, wherein the processing circuitry is further
operable to adjust image data obtained from the film in response to the first and
second outputs.
- 15 3. The system of Claim 1, wherein the processing circuitry is further
operable to adjust the output of the first light source in response to a film type.
4. The system of Claim 1, wherein the first amount of light is reflected
20 from at least one unexposed region of the film and the second amount of light is
passed through the at least one unexposed region of the film.
5. The system of Claim 1, wherein the film has developing chemical
applied thereto.
- 25 6. The system of Claim 1, wherein the processing circuitry is further
operable to save a last operating point of one of the group consisting of the first sensor
and the first light source in a storage medium.

7. A method for digital film processing, comprising;
illuminating a film with a first light source;
producing a first output in response to a first amount of light reflected from the
film with a first sensor for a first time interval;

5 producing a second output in response to a second amount of light passed
through the film with a second sensor for the first time interval; and

adjusting the output of the first light source in response to the first and second
outputs so that the first sensor and the second sensor do not saturate.

10 8. The method of Claim 7, further comprising adjusting image data
obtained from the film in response to the first and second outputs.

9. The method of Claim 8, wherein the image data are adjusted in
response to a gain level derived from the first and second outputs.

15 10. The method of Claim 7, wherein the film has a developing chemical
applied thereto.

20 11. The method of Claim 7, wherein the first amount of light is reflected
from at least one unexposed region of the film and the second amount of light is
illuminated through the at least one unexposed region of the film.

25 12. The method of Claim 7, further comprising adjusting the output of the
first light source in response to a film type.

30 13. A system for developing and processing film comprising:
an applicator operable to coat a processing solution onto the film, the
processing solution initiating development of the film;
a light source operable to illuminate the coated film with light;
a sensor operable to measure the light from the coated film; and
processing circuitry operable to vary an intensity of the light illuminating the
coated film.

14. The system of Claim 13, wherein the processing circuitry operates to vary the intensity of the light in response to a sensor measurement from an unexposed portion of the coated film.

5

15. The system of Claim 14, wherein the film is substantially dry.

16. The system of Claim 13, wherein the sensor is operable to measure light transmitted through the coated film.

10

17. The system of Claim 13, wherein the sensor is operable to measure light reflected from the coated film.

18. The system of Claim 17, wherein the light operates to produce infrared light.

15

19. The system of Claim 17, wherein the light operates to produce visible light.

20. The system of Claim 13, wherein the processing circuitry operates to vary the intensity of the light illuminating the coated film to substantially prevent saturation of the sensor.

20

21. The system of Claim 13, wherein the processing circuitry operates to set the intensity of light for each frame of the coated film.

25

22. The system of Claim 16, wherein the processing circuitry is further operable to adjust the output of the first light source in response to a film type.

23. The system of Claim 16, wherein the light source operates to produce light within the visible portion of the electromagnetic spectrum.

30

25. The system of Claim 15, wherein the light source operates to produce visible light and infrared light.